



## **KWIK KIT SPECIFICATIONS - MODEL KK-100-07**

### **Four Compartment Prisoner Transport Insert**

#### **CHEVROLET STANDARD LENGTH CARGO VAN ONLY**

##### **GENERAL DESCRIPTION:**

It is the intention of this specification to describe a conversion kit capable of installation into a full size Chevrolet cargo van (non extended) with Passenger and Driver side / side doors and OEM rear Air Conditioning and Heat. The finished product is to be used as a Law Enforcement Prisoner Transport vehicle. The insert provides seating for ten (10) persons and shall have four (4) separate compartments which will allow the loading of prisoners into both the rear and side doors of the van. The kit will be supplied with all Aluminum primary parts and will be capable of transfer into a new vehicle at a later date. Driver side of rear bulkhead, wall and bench assemblies will have accommodations for OEM rear air conditioning heat system. These accommodations will be included regardless if van has OEM rear air conditioning or not. All aluminum parts on bulkheads, walls, ceilings, dividers and benches to have a white powder coat finish.

##### **FRONT BULKHEAD:**

The driver compartment will be protected by a 63" wide X 50" high front bulkhead. It will be constructed from .125" thick aluminum sheet metal. The sheet will be formed to provide a framework and will have additional channel welded in for strength. The frame will have pre-punched holes to align with the wall and bench units. The entire assembly will be attached to bench/walls using 1/4" hardware. The upper section of bulkhead will include a .187 thick aluminum X 36" w X 30" h emergency exit hatch with two (2) heavy duty slide bolts. The hatch will have a perforated area for viewing that is covered with .250" clear polycarbonate.

##### **REAR BULKHEAD: (DOUBLE REAR DOORS)**

The rear OEM doors will be protected by a 63" wide X 50" high bulkhead. It will be constructed from .125" thick aluminum sheet metal. The sheet will be formed to provide a framework and will have additional channel welded in for strength. The frame will have pre-punched holes to align with the wall and bench units. The entire assembly will be attached to the bench/walls using 1/4" hardware. This bulkhead will have two (2) rear inner security doors measuring 23" wide X 46" high. The doors will be manufactured from .125" thick aluminum sheet metal. The sheet will be formed to provide a 2.125" thick framework and will have additional channel welded in for strength. An exterior door skin will be attached using .187" diameter aluminum rivets. The upper section of door must have a perforated area, which will allow officers to view into the prisoner compartment. Each door includes two (2) heavy duty rotary slam latches. The latches will be activated by a single, flush mounted, paddle handle that includes a key lock and two (2) keys. A secondary, tamperproof access will be provided to override each latch assembly if necessary. The doors will attach to the bulkhead frame using 1/4" hardware and a stainless steel continuous hinge.

##### **CENTER DIVIDER:**

A 97" long center divider with no perforations will separate the rear of van into two (2) halves. It will be constructed from .187" thick aluminum plate. It must be securely anchored to floor, ceiling and bulkheads.

##### **FRONT PASSENGER SIDE COMPARTMENT: (SIDE ENTRY)**

Passenger side forward compartment will be separated from the other three compartments by the center divider wall and a side separator partition. Separator partition will be attached to the divider and to the passenger side of the Kwik Kit. The separator partition will be constructed the same as the front bulkhead. The separator must also include an emergency exit hatch (22" wide X 30" high) with two (2) heavy-duty slide bolts. (Padlocks to be provided by end user if desired). The Emergency exit hatch will also have a 16" wide X 13" high diamond shaped perforated area for viewing and ventilation. A single interior partition with door will be mounted to separate the side compartment bench from the O.E.M. side doors. Framework and door construction will be the similar to the rear bulkhead, including dual rotary latches and paddle handle. Side Door width will be 30". The O.E.M. doors will not have to be modified. This compartment is designed to minimize leg movement of detainee and provide additional safety to officer.

### **FRONT DRIVER SIDE COMPARTMENT: (SIDE ENTRY)**

Driver side forward compartment will be separated from the other three compartments by the center divider wall and a side separator partition. Separator partition will be attached to the divider and to the driver side of the Kwik Kit. The separator partition will be constructed the same as the front bulkhead. The separator must also include an emergency exit hatch (22" wide X 30" high) with two (2) heavy-duty slide bolts. (Padlocks to be provided by end user if desired). The Emergency exit hatch will also have a 16" wide X 13" high diamond shaped perforated area for viewing and ventilation. A single interior partition with door will be mounted to separate the side compartment bench from the O.E.M. side doors. Framework and door construction will be the similar to the rear bulkhead, including dual rotary latches and paddle handle. Side Door width will be 30". The O.E.M. doors will not have to be modified. This compartment is designed to minimize leg movement of detainee and provide additional safety to officer.

### **BENCHES:**

Benches will be constructed from .125" thick aluminum with rounded front edges and will include a four-inch (4") wide X full length, rubber "non Slip" strip on bench tops. The rear driver side bench will seat three (3) people and will be 13" high X 13" deep X 58.5" long. The rear passenger side bench will also seat three (3) people and will be 13" high X 13" deep X 58.5" long. The bench for the passenger side forward compartment will seat two (2) people and will be 13" high X 13" deep X 40" long. The bench for the driver side forward compartment will also seat two (2) people and will be 13" high X 13" deep X 40" long. The bench seats for both forward side compartments will have under bench storage. Each storage compartment will have a door that hinges down with two (2) tamper resistant locks. Two (2) keys per storage compartment will be included.

### **WALLS:**

The driver and passenger side rear compartment walls will be 38" high X 60" long. The driver and passenger side forward compartment walls will be 38" high by 40" long. Each is constructed from .125" thick aluminum and will be contoured to closely fit the van's interior and the mating bench, ceiling and bulkheads units.

### **CEILING:**

The ceiling for the rear compartments is 48" wide X 60" long. The front compartment ceiling will be 48" wide X 40" long. The complete ceiling assembly will be a four-piece design with flush, overlapping, bolt together seams for added strength. All are constructed from .125 thick aluminum and have pre-cut holes for dome lights and air conditioning / heat vents. The ceiling assemblies will bolt to mating wall and bulkheads.

### **FLOORING:**

The flooring for the rear compartments will be constructed from .125" thick, bright-dipped aluminum tread plate. The main floor is 36" wide X 97" long. Additional 7 1/2" X 48" tread plate will be provided for space between rear bulkhead and OEM rear doors. The side compartment flooring will have an additional piece to fill in the step well area.

### **REAR STEP:**

A rear step shall be supplied with the kit and will bolt directly to the vehicle frame. It will be 48" wide by 10" deep. The step will be constructed from welded steel angle framework, and will have a perforated non-slip deck surface. Steel parts will have a black polyester powder coat finish.

### **SIDE SLIDE OUT STEPS:**

The slide out side step for both side compartments will be 30" wide X 10" deep. Each step will be manufactured from welded steel framework with perforated non slip tread surface. Each will slide under the van body when not in use. Steel parts will have a black polyester powder coat finish.

### **DOMELIGHTS:**

Each rear compartment will each have two (2) 4" diameter stainless steel dome lights. Each front compartment will each have one (1) 4" diameter stainless steel dome lights. All dome lights will have tamperproof .250" thick, clear polycarbonate guards. On /off rocker switch will be in driver compartment dash area.

### **GRAB STRAPS AND LABELS:**

Heavy-duty nylon webbing straps will be mounted to the lower section of the wall. There will be one (1) strap per seat location. Straps will be positioned so that each prisoner, with handcuffs behind their back, can hold onto the strap. Each strap will be anchored with 1/2" X 1 1/4" round head tamper proof bolts. The bolts will attach to the bench and wall assemblies. Straps to be made by a certified automotive belt manufacturer. In addition, the kit will have four (4) – Yellow labels (4" x 6") with black lettering that read "Hold on to Straps When Vehicle is in Motion". Each Label includes lettering in English and Spanish. They will also include a picture of two hands holding a Strap. Two (2) more labels will be provided that read "Drive with Extra Caution While Transporting Passengers". These labels are also yellow with black lettering for mounting on dash of vehicle cab.

**KK-C-VAK (VENT ADAPTOR KIT)**

(Ductwork kit that attaches to the O.E.M. Rear Heat / AC blower system)

A kit will be provided to adapt the chassis O.E.M. rear heat and air conditioning system to the prisoner transport insert. The kit will include a plenum that attaches to the O.E.M. blower housing. From this housing there will be four (4) hose ducts connected to the ceiling of each prisoner unit. Each hose end will have a vandal proof vent guard positioned to provide an even flow of air into each compartment. Controls for the vent adaptor kit will be the pre-existing O.E.M. rear controls. Sheet metal in the area of the rear evaporator unit must have a vandal proof service access panel.

**MISCELLANEOUS:**

1. When all components of insert are completed assembled and installed, all seams will be sealed with RTV silicone.
2. An aluminum plate with white powder coat finish will cover the accommodations in the driver side bench, wall and rear bulkhead. This cover will guard the OEM air conditioner / heat evaporator blower system from detainees and will allow for easy access when removed for service.

**FINISH:**

All aluminum parts will have a super durable White polyester powder coat finish. The profile of the aluminum sub-straight will have proper pretreatment preparation to withstand a minimum of 1,000 hour salt spray exposure (per ASTM-B117 testing). Written test results must be available upon request.